Grade 7 Units 5 & 6 Week 6

Parents: Please help your child choose the most appropriate assignment(s) to complete each day. When the day's assignment is done, students finish the two reflection statements on this page.

Please note Extra Practice activities are on-level for the grade level. Re-Engage activities give students additional support.

Special Education students should use the Re-Engage lessons as shown in the weekly plans.

	Monday	Tuesday	Wednesday	Thursday	Friday
Topic	Expand expressions using the distributive property.	Factor expressions using greatest common factors.	Solve one-step equations using inverse-operations.	Solve two-step equations involving decimals	Solve two-step equations involving fractions.
Assignment	Unit 5 Lesson 2 Re-Engage	Unit 5 Lesson 3 Re-Engage A Re-Engage B Extra Practice	Unit 6 Lesson 2 Re-Engage A Re-Engage B Extra Practice	Unit 6 Lesson 4 Re-Engage A Re-Engage B	Unit 6 Lesson 5 Re-Engage Extra Practice
Video link	Unit 5 Lesson 2 **Student Support Video**	Unit 5 Lesson 3 **Student Support Video**	Unit 6 Lesson 2 **Student Support Video**	Unit 6 Lesson 4 **Student Support Video**	Unit 6 Lesson 5 **Student Support Video**
Fluency Practice	Integers Addition Fluency B	Integers Subtraction Fluency B	Integers Multiplication Fluency B	Integers Division Fluency B	Fraction-Decimal Conversion Fluency B
Reflection	One thing I was successful with is… One thing I need more help with is…	One thing I was successful with is… One thing I need more help with is…	One thing I was successful with is… One thing I need more help with is…	One thing I was successful with is… One thing I need more help with is…	One thing I was successful with is… One thing I need more help with is…

Find this packet on swunmath.com. Click on the hyperlinks to jump to the lesson videos.

Re-Engage
Unit 5 Lesson 2: Distributive Property

Name: _____

Date: _____

Model

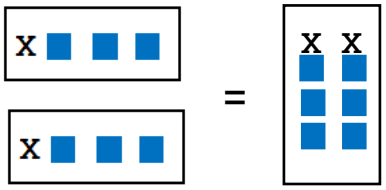
The Distributive Property

$$2(x + 3) + 3x$$

"2 groups of x + 3"

Method 1:

Distribute the 2 →



Simplify →

$$2x + 6 + 3x =$$

$$\mathbf{5x + 6}$$

Method 2:

$$\mathbf{2(x + 3) + 5=}$$

Distribute the 2. →

$$(2 \cdot x) + (2 \cdot 3) + 5=$$

Simplify →

$$2x + 6 + 5 =$$

$$\mathbf{2x + 11}$$

Structured Guided Practice

Directions: Simplify.

1. $2(-5x + 6) + x$	2. $4(-3x + 2) + 3$
3. $-3(2x + 5) + 5$	4. $5(2x - 3) - 2x$

Re-Engage

Unit 5 Lesson 2: Distributive Property

Student Practice

Directions: Simplify.

1. $2(-3x + 4) - 2$	2. $-4(x + 2) + 2x$
3. $5(-3x + 4) - 3$	4. $8(2x + 2) + 5x$
5. $-4(2x - 4) + 6x$	6. $-5(3x - 2) - 3$

Re-Engage

Unit 5 Lesson 3a: The Greatest Common Factor

Name: _____

Date: _____

Model

Greatest Common Factor

24, 36, 12

List factors of each number:

Factors of 24:	1	2	3	4	6	8	12	24	
Factors of 36:	1	2	3	4	6	9	12	18	36
Factors of 12:	1	2	3	4	6	12			

Common Factors

The GCF (Greatest Common Factor) is 12.

* Be sure to create an organized list of the factors starting with 1 and ending with the number you are factoring.

Structured Guided Practice

Directions: Find the greatest common factor.

1. 16, 28, 32

2. 35, 20, 65

Re-Engage

Unit 5 Lesson 3a: The Greatest Common Factor

Student Practice

Directions: Find the greatest common factor.

1. 56, 72, 64	2. 21, 42, 35
3. 44, 55, 66	4. 81, 63, 54
5. 144, 24, 12	6. 36, 66, 12

Re-Engage

Unit 5 Lesson 3b: Greatest Common Factor with Negatives

Name: _____

Date: _____

Model

Greatest Common Factor with Negative Numbers

$$-16, -28, -32$$

List the factors of each number:

Factors of −16:	−1	1	−2	2	−4	4	−8	8	−16	16		
Factors of −28:	−1	1	−2	2	−4	4	−7	7	−14	14	−28	28
Factors of −32:	−1	1	−2	2	−4	4	−8	8	−32	32		

Common Factors

*The GCF is 4

Structured Guided Practice

Directions: Find the greatest common factor.

1. 16, 28, -12	2. 35, - 20, 15
3. -12, -24, -36	4. -56, -64, -96

Re-Engage

Unit 5 Lesson 3b: Greatest Common Factor with Negatives

Student Practice

Directions: Find the greatest common factor.

1. 66, 12, -54	2. -24, 12, -36
3. -56, -64, 16	4. -21, -42, -35
5. -81, -63, -54	6. -44, -55, -66

Extra Practice

Unit 5 · Lessons 1, 2 & 3: Algebraic Expressions

Name: _____

Date: _____

Directions: Follow the directions for each problem.

1. Simplify. $(x + 3y) + (6x - 5y)$	2. Expand this expression using the distributive property. $-2(-3x - 4)$
3. Factor the expression and identify the GCF. $2h + 12$	4. Simplify. $(-4x + 3y) - 5y + (-8x)$
5. Expand this expression using the distributive property. $4(2x + 3) + 3(x - 2)$	6. Factor the expression and identify the GCF. $3q - 18$
7. Simplify. $(-3x + 4) - 4(-x + 2)$	8. Expand this expression using the distributive property. $-4(2 - 3x)$

Re-Engage

Unit 6 Lesson 2a: Adding & Subtracting Fractions

Name: _____

Date: _____

Model

Adding & Subtracting Fractions

$$\frac{1}{3}+\frac{2}{4}$$

1. Find a common denominator (equivalent fraction). $\frac{1}{3}=\frac{4}{12}$ and $\frac{2}{4}=\frac{6}{12}$

2. Add or subtract the <u>new</u> fractions. $\frac{4}{12}+\frac{6}{12}=\frac{10}{12}$

3. Simplify, if needed. $\frac{10}{12}=\frac{5}{6}$

Structured Guided Practice

Directions: Add or subtract.

1. $\frac{3}{7}+\frac{2}{9}$

2. $\frac{4}{7}-\frac{1}{3}$

Re-Engage

Unit 6 Lesson 2a: Adding & Subtracting Fractions

Student Practice

Directions: Add or subtract.

1. $\frac{4}{7}+\frac{2}{5}$	2. $\frac{1}{2}-\frac{2}{5}$
3. $\frac{4}{7}+\frac{1}{4}$	4. $\frac{5}{6}-\frac{3}{5}$
5. $\frac{3}{8}+\frac{2}{5}$	6. $\frac{2}{5}-\frac{2}{7}$

Re-Engage

Unit 6 Lesson 2b: Adding & Subtracting Decimals

Name: _____

Date: _____

Model

Add & Subtract Decimals

$$48.52 + 21.37 = \_\_\_\_\_$$

	Tens	Ones		Tenths	Hundredths
	4	8	.	5	2
+	2	1	.	3	7
	6	9	.	8	9

Steps:

1. Line up the digits by place value. Decimals will be lined up.
2. Write the decimal point in the answer.
3. Add or subtract.

*Zeros at the end of the decimals may be dropped.

Structured Guided Practice

Directions: Add or subtract.

1. 56.98 + 23.42

	Tens	Ones	.	Tenths	Hundredths
+					

2. 87.35 − 15.62

	Tens	Ones	.	Tenths	Hundredths
+					

Re-Engage

Unit 6 Lesson 2b: Adding & Subtracting Decimals

Student Practice

Directions: Add or subtract.

1. 56.98 + 42.45

	Tens	Ones	.	Tenths	Hundredths
+					

2. 85.17 − 72.94

	Tens	Ones	.	Tenths	Hundredths
+					

3. 56.99 + 12.77

	Tens	Ones	.	Tenths	Hundredths
+					

4. 57.02 − 48.25

	Tens	Ones	.	Tenths	Hundredths
+					

5. 98.34 + 21.91

	Tens	Ones	.	Tenths	Hundredths
+					

6. 89.25 − 34

	Tens	Ones	.	Tenths	Hundredths
+					

Extra Practice

Unit 6 · Lessons 1 & 2: Understand Equations

Name: _____

Date: _____

Directions: Solve and check your solution

1. $n + \frac{4}{5} = 1\frac{3}{5}$	2. $-\frac{4}{7}x = 2\frac{2}{7}$
3. 1.25 = z + 4.1	4. $3\frac{1}{8} = p + \frac{5}{8}$
5. −3.5 = 0.7m	6. 3.2 = 2t
7. $-2\frac{1}{2}\,x = 5$	8. 2.8 + y = 6.4

Re-Engage

Unit 6 Lesson 4a: Multiply Equations by 10

Name: _____

Date: _____

Model

Clear Decimals from Equations

$$11.5 - 25x = 42$$

The equation has decimals in the tenths place, so multiply both sides by 10.

$$\begin{aligned} 10(11.5 - 25x) &= (42)10 \\ 115 - 250x &= 420 \end{aligned}$$

Isolate the variable.

$$\begin{aligned} 115 - 250x &= 420 \\ -115 &= -115 \\ -250x &= 305 \end{aligned}$$

Solve.

$$\begin{aligned} \frac{-250x}{-250} &= \frac{305}{-250} \end{aligned}$$

$$x = -1.22$$

**Use a calculator to solve or leave in a simplified fraction.*

Structured Guided Practice

Directions: Clear the equation of decimals and solve.

1. $21.2 - 16x = 67$

2. $12.4 - 25x = 54$

Re-Engage

Unit 6 Lesson 4a: Multiply Equations by 10

Student Practice

Directions: Clear the equation of decimals and solve.

1. $12.7 - 25x = 92$	2. $21.5 - 16x = 40$
3. $22.3 - 52x = 86$	4. $15.8 - 12x = 56$
5. $23.8 - 22x = 48$	6. $17.2 - 32x = 45$

Re-Engage

Unit 6 Lesson 4b: Multiply Equations by 100

Name: _____

Date: _____

Model

Clear Decimals from Equations

$$0.52 - 4.8x = 28$$

The equation has decimals in the hundredths place, so multiply both sides by 100.

$$\begin{aligned} 100(0.52 - 4.8x) &= (28)100 \\ 52 - 480x &= 2800 \end{aligned}$$

Isolate the variable.

$$\begin{aligned} 52 - 480x &= 280 \\ -52 &= -52 \\ -480x &= 2748 \end{aligned}$$

Solve.

$$\begin{aligned} \frac{-480x}{-480} &= \frac{2748}{-480} \\ x &= -5.725 \end{aligned}$$

**Use a calculator to solve or leave in a simplified fraction.*

Structured Guided Practice

Directions: Clear the equation of decimals then solve.

1. $0.16 - 7.5x = 73$	2. $0.61 - 4.8x = 31$

Re-Engage

Unit 6 Lesson 4b: Multiply Equations by 100

Student Practice

Directions: Clear the equations of decimals then solve.

1. $0.78 - 1.5x = 42$	2. $0.77 - 8.8x = 22$
3. $0.87 - 4.5x = 42$	4. $0.28 - 9.6x = 25$
5. $0.16 - 2.8x = 57$	6. $0.68 - 5.0x = 33$

Re-Engage

Unit 6 Lesson 5-6: Multiplicative Inverse

Name: _____

Date: _____

Model

The Multiplicative Inverse

* also known as the reciprocal
* inverse means opposite
* the product will always be 1

1. Find the opposite of the number so the product will = 1

-7

Think: $(-7)(x) =$

2. Solve for x.

$$(-7)\left(-\frac{1}{7}\right)=1$$

.

The multiplicative inverse of -7 is $-\frac{1}{7}$.

$\frac{1}{4}$

Think: $\left(\frac{1}{4}\right)(x)=1$

$$\left(\frac{1}{4}\right)(4)=1$$

The multiplicative inverse of $\frac{1}{4}$ is 4.

Structured Guided Practice

Directions: Find the multiplicative inverse.

1. -5	2. 10
3. $-\frac{1}{4}$	4. $\frac{1}{3}$

Re-Engage

Unit 6 Lesson 5-6: Multiplicative Inverse

Student Practice

Directions: Find the multiplicative inverse.

1. -8	2. 3
3. -6	4. $-\frac{1}{9}$
5. $\frac{1}{5}$	6. $-\frac{1}{10}$

Extra Practice

Unit 6 · Lessons 3, 4, 5, & 6: Multi-Step Equations

Name: _____

Date: _____

Directions: Solve and check. Use a visual model, if needed.

1. $4m - 8 = 20$	2. $6y + 12 = 36$
3. $16 = 0.5p$	4. $8 + 0.5m = 15.25$
5. $\frac{m}{4} + 5 = 12$	6. $\frac{p}{5} - 20 = 10$
7. $5(b + 4) = 2(b + 13)$	8. $d + 3 = \frac{d+1}{2}$

Integers: Addition Fluency B
(70 items)

Name_____ **Date**_____

$-3 + -6 =$	$8 + -2 =$	$7 + -4 =$	$9 + -3 =$	$-9 + 2 =$	$5 + -3 =$	$8 + -1 =$
$-4 + 9 =$	$-7 + 3 =$	$-4 + -5 =$	$-9 + -5 =$	$-3 + 3 =$	$-2 + -8 =$	$-4 + 2 =$
$-7 + -1 =$	$-7 + -7 =$	$-2 + 6 =$	$-7 + -8 =$	$-3 + -7 =$	$-9 + 6 =$	$-9 + 4 =$
$-2 + -2$	$7 + -6 =$	$-8 + 5 =$	$8 + -7 =$	$-5 + 6 =$	$-6 + -5 =$	$-5 + 4 =$
$-9 + -4 =$	$-7 + -2 =$	$-9 + 1 =$	$4 + -9 =$	$3 + -8 =$	$-3 + -5 =$	$-9 + 9 =$
$6 + -3 =$	$-2 + 7 =$	$-9 + -7 =$	$-4 + -6 =$	$-5 + 8 =$	$-8 + 6 =$	$-8 + 9 =$
$-5 + -5 =$	$-8 + -4 =$	$-9 + 8 =$	$-6 + -4 =$	$-4 + -3 =$	$3 + -4 =$	$-2 + -3 =$
$-6 + -2 =$	$-7 + 5 =$	$-8 + -3 =$	$-5 + 7 =$	$-5 + 7 =$	$-2 + -5 =$	$0 + 6 =$
$5 + -9 =$	$7 + -9 =$	$6 + -1 =$	$-4 + -8 =$	$-2 + 4 =$	$-8 + -9 =$	$4 + -4 =$
$-6 + 8 =$	$-7 + 5 =$	$-6 + -6 =$	$4 + -7 =$	$-3 + 2 =$	$6 + -7 =$	$8 + -4 =$

Integers: Subtraction Fluency B
(70 items)

Name_____ **Date**_____

$-5-6=$	$-9--5=$	$-2-2=$	$6--1=$	$-6--5=$	$-8--9=$	$7--4=$
$-5--9=$	$-2--5=$	$6--3=$	$-4-9=$	$-5-8=$	$-3-3=$	$4--7=$
$-2-6=$	$5--3=$	$-9-4=$	$8--2=$	$2--7=$	$-4-2=$	$-3--6=$
$-6--6=$	$-6--2=$	$6--7=$	$-2--9=$	$-4+-6=$	$-2-4=$	$-9-8=$
$-4--8=$	$3--4=$	$-7--6=$	$-8--3=$	$-3--7=$	$5--2=$	$7--6=$
$-3--5=$	$-5--5=$	$-9--7=$	$7--9=$	$-6--4=$	$-6-8=$	$-2--3=$
$-7--7=$	$-5-7=$	$-9-6=$	$0-6=$	$-8-5=$	$-6-9=$	$-5-4=$
$4--4=$	$8--8=$	$9--3=$	$-7--8=$	$8--1=$	$-3-2=$	$-4--3=$
$8--8=$	$8--4=$	$-9-9=$	$-7--5=$	$-9-1=$	$-8-6=$	$-2--8=$
$-2-7=$	$-7-3=$	$3--8=$	$-9-2=$	$3--9=$	$-4--5=$	$-9--4=$

Integers: Multiplication Fluency B
(70 items)

Name_____ **Date**_____

$-3 \cdot 4 =$	$-7 \cdot -2 =$	$-6 \cdot -6 =$	$-9 \cdot -7 =$	$-7 \cdot 9 =$	$-3 \cdot -6 =$	$-5 \cdot 9 =$
$4 \cdot -9 =$	$5 \cdot -8 =$	$9 \cdot -6 =$	$2 \cdot -7 =$	$2 \cdot -4 =$	$-7 \cdot 6 =$	$-8 \cdot 1 =$
$2 \cdot -2 =$	$6 \cdot -9 =$	$5 \cdot -7 =$	$0 \cdot 9 =$	$-6 \cdot -4 =$	$8 \cdot -8 =$	$-7 \cdot -5 =$
$3 \cdot -2 =$	$-4 \cdot -3 =$	$-9 \cdot -4 =$	$5 \cdot -6 =$	$7 \cdot -3 =$	$-3 \cdot 8 =$	$-5 \cdot 2 =$
$9 \cdot -8 =$	$-6 \cdot 1 =$	$-5 \cdot 3 =$	$-3 \cdot 9 =$	$-6 \cdot -5 =$	$-9 \cdot -5 =$	$-4 \cdot -5 =$
$-8 \cdot 8 =$	$-2 \cdot -8 =$	$9 \cdot -1 =$	$-8 \cdot 4 =$	$8 \cdot -5 =$	$6 \cdot -8 =$	$-7 \cdot -7 =$
$-2 \cdot -3 =$	$-9 \cdot 3 =$	$-7 \cdot -8 =$	$-4 \cdot 4 =$	$5 \cdot -4 =$	$8 \cdot -6 =$	$-6 \cdot -2 =$
$-4 \cdot -6 =$	$9 \cdot -2 =$	$6 \cdot -4 =$	$-7 \cdot 4 =$	$-4 \cdot -8 =$	$-6 \cdot 7 =$	$-3 \cdot -7 =$
$-2 \cdot -5 =$	$-6 \cdot 3 =$	$4 \cdot -2 =$	$-8 \cdot 7 =$	$-5 \cdot -5 =$	$-3 \cdot -5 =$	$-4 \cdot 7 =$
$3 \cdot -3 =$	$-8 \cdot 2 =$	$-7 \cdot -1 =$	$-8 \cdot 2 =$	$-2 \cdot -9 =$	$-8 \cdot -3 =$	$2 \cdot -6 =$

Integers: Division Fluency B
(70 items)

Name_____ **Date**_____

$-45 \div -5 =$	$-48 \div -6 =$	$-36 \div 9 =$	$8 \div -2 =$	$15 \div -3 =$	$-12 \div -6 =$	$3 \div -3 =$
$54 \div -9 =$	$-12 \div 2 =$	$35 \div -7 =$	$-27 \div -9 =$	$-6 \div 2 =$	$-12 \div -3 =$	$6 \div -6 =$
$-54 \div 6 =$	$-45 \div -9 =$	$-10 \div -2 =$	$18 \div -3 =$	$-18 \div 6 =$	$18 \div -3 =$	$-14 \div 7 =$
$12 \div -4 =$	$-81 \div -9 =$	$-9 \div 3 =$	$-24 \div -3 =$	$-30 \div 5 =$	$21 \div -7 =$	$-64 \div 8 =$
$-63 \div 9 =$	$-14 \div -2 =$	$-24 \div -3 =$	$36 \div -6 =$	$-28 \div 7 =$	$72 \div -9 =$	$-18 \div -2 =$
$8 \div -4 =$	$12 \div -4 =$	$10 \div -5 =$	$-42 \div -7 =$	$-40 \div -8 =$	$0 \div -7 =$	$-20 \div -4 =$
$20 \div -5 =$	$56 \div -7 =$	$56 \div -8 =$	$-4 \div 4 =$	$-28 \div 4 =$	$-30 \div 5 =$	$-2 \div -2 =$
$-72 \div -8 =$	$-4 \div 2 =$	$36 \div -4 =$	$-40 \div 5 =$	$-6 \div -3 =$	$18 \div -9 =$	$16 \div -8 =$
$-24 \div -8 =$	$-32 \div 8 =$	$-9 \div -9 =$	$-16 \div -4 =$	$-15 \div -5 =$	$49 \div -7 =$	$-48 \div 8 =$
$-35 \div -5 =$	$-32 \div -4 =$	$-9 \div 3 =$	$-64 \div 8 =$	$-63 \div -7 =$	$-25 \div -5 =$	$-24 \div 4 =$

Fraction/Decimal Conversion B
(70 items)

Name_____ **Date**_____

Directions: Convert fractions to decimals and decimals to fractions.

$\frac{3}{50} =$	$0.89 =$	$0.41 =$	$\frac{11}{100} =$	$\frac{1}{3} =$	$0.2 =$	$\frac{3}{5} =$	$\frac{73}{100} =$	$0.39 =$	$0.09 =$
$\frac{1}{5} =$	$0.75 =$	$\frac{1}{4} =$	$0.55 =$	$0.5 =$	$\frac{1}{10} =$	$0.6 =$	$\frac{3}{5} =$	$\frac{69}{100} =$	$\frac{8}{20} =$
$0.91 =$	$\frac{11}{25} =$	$0.3 =$	$\frac{7}{100} =$	$\frac{1}{4} =$	$0.75 =$	$\frac{63}{100} =$	$0.17 =$	$\frac{13}{20} =$	$0.65 =$
$0.27 =$	$\frac{19}{20} =$	$0.19 =$	$\frac{2}{5} =$	$0.35 =$	$\frac{1}{5} =$	$\frac{1}{10} =$	$\frac{3}{100} =$	$0.05 =$	$0.1 =$
$\frac{7}{10} =$	$\frac{29}{50} =$	$0.85 =$	$0.95 =$	$\frac{18}{20} =$	$0.6 =$	$\frac{1}{4} =$	$0.21 =$	$0.3 =$	$\frac{9}{25} =$
$0.81 =$	$\frac{13}{25} =$	$\frac{32}{50} =$	$\frac{7}{100} =$	$0.27 =$	$0.48 =$	$\frac{7}{100} =$	$\frac{12}{25} =$	$0.36 =$	$0.07 =$
$0.82 =$	$0.51 =$	$\frac{1}{20} =$	$0.8 =$	$\frac{4}{5} =$	$0.03 =$	$\frac{1}{25} =$	$0.12 =$	$\frac{71}{100} =$	$\frac{1}{5} =$